



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

**MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION**

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Firestone Building Products Company, LLC
250 West 96th Street
Indianapolis, IN 46260

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Firestone EPDM Single Ply Roof Systems over Concrete Decks.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews and revises NOA No. 09-0323.03 and consists of pages 1 through 26.

The submitted documentation was reviewed by Jorge L. Acebo.



NOA No.: 13-0423.05
Expiration Date: 08/10/18
Approval Date: 07/25/13
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ROOFING SYSTEM APPROVAL

Category: Roofing
Sub-Category: Single Ply
Material: EPDM
Deck Type: Concrete
Maximum Design Pressure: -420 psf.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Standard RubberGard®	45 & 60 mil	ASTM D4637 Type I	Non-Reinforced EPDM membrane.
RubberGard MAX®	45, 60 & 75 mil	ASTM D4637 Type II	Polyester scrim reinforced EPDM membrane.
RubberGard MAX FR®	45, 60 & 75 mil	ASTM D4637 Type II	Fire Retardant Polyester scrim reinforced EPDM membrane .
RubberGard MAX PT®	45 & 60 mil	ASTM D4637 Type II	Polyester scrim reinforced EPDM membrane with integrated 3” pre-applied seam tape.
RubberGard Platinum®	90 mil	ASTM D4637 Type I	Non-Reinforced EPDM membrane.
RubberGard Platinum LS-FR®	90 mil	ASTM D4637 Type I	Non-Reinforced EPDM membrane.
RubberGard LS-FR®	45 & 60 mil	ASTM D4637 Type I	Fire Retardant Non-Reinforced EPDM membrane.
RubberGard LS-FR PT®	60 mil	ASTM D4637 Type I	Fire Retardant Non-Reinforced EPDM membrane with integrated 3” pre-applied seam tape.
RuberGard EcoWhite®	60 mil	ASTM D4637 Type I	Non-Reinforced, bi-laminate, white on black EPDM membrane.
EPDM FormFlash	various	ASTM D4811	Self-curing EPDM flashing
Reinforced Perimeter Fastening Strip	.045" x 6" x 100'	ASTM D4637	Non-dusted EPDM reinforced strip for non-penetrating base tie-in details
Bonding Adhesive BA-2004 T	5 gallon pail	Proprietary	Neoprene based bonding adhesive
Splice Adhesive SA-1065	1 gallon and 5 gallon pails	Proprietary	Synthetic polymer based adhesive
UltraPly Bonding Adhesive	5 gal. pail	Proprietary	Solvent based adhesive
I.S.O. Stick	5 gal. & 1500 ml	Proprietary	A dual component polyurethane adhesive.
I.S.O. Twin Pack Insulation Adhesive	1500 ml	Proprietary	A dual component polyurethane adhesive.
I.S.O. Fix II	30 lbs.	Proprietary	A single component polyurethane adhesive.
AcryliTop	5 gallon pail	Proprietary	Acrylic coating



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<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
QuickPrime, QuickPrime Plus, QuickPrime Plus LVOC Primer	5 gallon pail	Proprietary	Primer used to clean and prime EPDM
QuickSeam Flashing	.080" x various widths x 100'	Proprietary	Semi-cured EPDM flashing laminated to cure seam tape
QuickSeam Batten Cover	.095" x various widths x 100'	Proprietary	Cured EPDM and a seam adhesive laminate
QuickSeam Joint Cover	.070" x 5.75" diameter	Proprietary	FormFlash with two layers of butyl/EPDM adhesive tape laminate
QuickSeam Tape	3" x 100'	Proprietary	Tape for field splicing
QuickSeam R.M.A. Strip	10" x 100'	Proprietary	Strip of RubberGard MAX with QuickSeam Tape for anchoring membrane to substrate
Splice Wash SW-100	5 gallon pail	Proprietary	Cleaning and prep solution for EPDM
Pourable Sealer S-10	.78 gallon, Part A .10 gallon, Part B	Proprietary	Two part polyurethane sealant

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
ACFoam Composite	Isocyanurate Insulation with perlite facer	Atlas Roofing Corp.
ACFoam II	Isocyanurate Insulation	Atlas Roofing Corp.
ISO 95+ GL	Isocyanurate Insulation	Firestone Building Products Company, LLC
ISOGARD HD	High density polyisocyanurate for use as a cover board	Firestone Building Products Company, LLC
DensDeck, DensDeck Prime	Silicon treated gypsum	Georgia Pacific Gypsum LLC
ENRGY 3, ENRGY 3 25 PSI	Isocyanurate Insulation	Johns Manville Corp.
Fesco Foam	Isocyanurate Insulation with perlite facer	Johns Manville Corp.
High Density Wood Fiberboard	High Density Wood Fiber insulation board.	Generic
Multi-Max 3, Multi-Max FA-3	Isocyanurate Insulation	RMax Operating, LLC
Thermarroof Composite	Isocyanurate Insulation with perlite facer	RMax Operating, LLC



APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Firestone All-Purpose Fastener	Insulation and membrane fastener	Various	Firestone Building Products Company, LLC
2.	Firestone Heavy-Duty Fastener	Insulation and membrane fastener	Various	Firestone Building Products Company, LLC
3.	Firestone Concrete Drive	Insulation and membrane fastener for concrete decks.	Various	Firestone Building Products Company, LLC
4.	2" Metal Plate	Membrane seam attachment plate.	2" dia.	Firestone Building Products Company, LLC
5.	Dekfast Fasteners	Insulation and membrane fastener	Various	SFS Intec, Inc.
6.	Dekfast Hex Plate	Insulation and membrane fastener	Various	SFS Intec, Inc.
7.	#12 & #14 Roofgrip	Insulation and membrane fastener	Various	OMG, Inc.
8.	Metal Plate	Galvalume AZ50 stress plate	3" square 3" round	OMG, Inc.
9.	Plastic Plate	Polyethylene stress plate	3.2" round	OMG, Inc.
10.	Olympic Fasteners	Insulation and membrane fastener	Various	OMG, Inc.
11.	Olympic Standard	Galvalume AZ55 stress plate	3" round	OMG, Inc.
12.	Olympic Plastic Plate	Plastic plates for fasteners.	3" round	OMG, Inc.
13.	Rawl Fasteners	Insulation fastener for steel and wood decks	Various	Powers Fasteners Inc.
14.	Rawl Insulation Plate	Galvalume AZ55 stress plate	3" round	Powers Fasteners Inc.
15.	Tru-Fast HD Fasteners	Insulation and membrane fastener	Various	Altenloh, Brinck & Co. U.S., Inc.
16.	Tru-Fast MP-3	Galvalume AZ50 steel plate	3.23" round	Altenloh, Brinck & Co. U.S., Inc.
17.	Firestone V-Plate	Membrane seam attachment plate.	2¼" dia.	Firestone Building Products Company, LLC
18.	Metal Batten Bar	Galvalume AZ55 batten strip	10' long, 1" wide	Firestone Building Products Company, LLC
19.	Coiled Metal Batten Bar	Galvalume AZ55 batten strip	220' long, 1" wide	Firestone Building Products Company, LLC
20.	Polymer Batten Strips	Polymer, corrosion –free, batten strip.	250' long, ¾ or 1" wide	Firestone Building Products Company, LLC

EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Description</u>	<u>Date</u>
Underwriters Laboratories, Inc.	R9516	UL790	07/17/13
Factory Mutual Research Corp.	1V1A7.AM	FM 4470	06/25/92
	1W3A4.AM	FM 4470	12/01/92
	1T7A3.AM	FM 4470	01/18/92
	1V6A9.AM	FM 4470	02/27/92
	2W6A2.AM	FM 4470	06/25/93
	2X9A8.AM	FM 4470	06/14/94
	3010822	FM 4470	07/31/02
	3014031	FM 4470	07/22/02
	3031293	FM 4470	11/29/07
	3028164	FM 4470	11/02/07
	3017797	FM 4470	10/07/04
	3011282	FM 4470	08/08/02
	3030880	FM 4470	03/04/08
	3029384	FM 4470	02/28/08
	3033218	FM 4470	08/12/08
Trinity ERD	F12260.02.09-2	TAS 114	02/04/09
	F9240.03.09-R2	ASTM D4637	07/30/09
	F9240.11.08-R1	ASTM D4637	07/10/09
	F9240.07.08-R2	ASTM D4637	07/10/09
	F13260.08.09-1	ASTM D4637	08/07/09

APPROVED ASSEMBLIES

Membrane Type:	EPDM, Reinforced, Non-reinforced
Deck Type 3I:	Concrete, Insulated
Deck Description:	2500 psi or greater structural concrete or concrete plank
System Type A(1):	One or more layers of insulation adhered with approved asphalt; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
ISO 95+ GL, ENRGY 3, ENRGY 3 25 PSI, AC Foam II, Multi-Max FA Minimum 1.4" thick	N/A	N/A

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of base sheet. All insulation shall be adhered in full mopping of approved asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the polyisocyanurate side facing down.

Fire Barrier:	(Optional) Install one or two plies of UL Classified or FM Approved ply or base sheet directly to the primed concrete deck with hot asphalt at an application rate of 20-40 lbs./sq.
Membrane:	Fully adhere any Firestone RubberGard [®] EPDM membrane to the insulation with Firestone Bonding Adhesive BA-2004 T or UltraPly Bonding Adhesive at a rate of 45-60 sq. ft./gal. (coverage area is for adhesive application to both mating surfaces).
Surfacing:	(Optional) Firestone Acryli-Top (PC-100) to be applied at 1 gal./100 sq. ft. with an airless sprayer. If roller applied, two separate coats of 200 sq. ft. per gallon are required.
Maximum Design Pressure:	-45 psf. (See General Limitation #7)



Membrane Type: EPDM, Reinforced, Non-reinforced

Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi or greater structural concrete or concrete plank

System Type A(2): One or more layers of insulation adhered with approved asphalt; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
ISO 95+ GL Minimum 1.5" thick	N/A	N/A
Middle Insulation Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft ²
Tapered ISO 95+ GL Minimum ½" thick start with a ¼ : 12 taper	N/A	N/A
Top Insulation Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft ²
DensDeck Minimum ¼" thick	N/A	N/A

Note: All insulation shall be adhered in full mopping of approved asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Composite insulation panels used as a top layer shall be placed with the polyisocyanurate side facing down.

Membrane: Fully adhere any Firestone EPDM membrane to the insulation with Firestone BA 2004 T Bonding Adhesive or UltraPly Bonding Adhesive at a rate of 60 sq. ft./gal. (coverage area is for adhesive application to both mating surfaces).

Surfacing: (Optional) Firestone Acryli-Top (PC-100) to be applied at 1 gal./100 sq. ft. with an airless sprayer. If roller applied, two separate coats of 200 sq. ft. per gallon are required.

Maximum Design Pressure: -165 psf with DensDeck cover board (See General Limitation #9)
-195 psf without cover board (See General Limitation #9)

Membrane Type: EPDM, Reinforced, Non-reinforced

Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi or greater structural concrete or concrete plank

System Type A(3): One or more layers of insulation adhered with approved adhesive; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
ISO 95+ GL Minimum 1.5" thick	N/A	N/A
DensDeck Minimum 1/4" thick	N/A	N/A

Note: All insulation shall be adhered with Firestone I.S.O. Twin Pack Insulation Adhesive applied in full coverage application. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Membrane: Firestone Standard RubberGard, RubberGard LS-FR, RubberGard LS-FR PT, RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR or RubberGard Platinum EPDM membrane fully adhered to the cover board with Firestone BA-2004 T Bonding Adhesive or UltraPly Bonding Adhesive at a rate of 60 sq. ft./gal. (coverage area is for adhesive application to both mating surfaces for a total of 120 sq. ft./gal). The roof cover side and end laps are sealed with Firestone SA-1065 Splice Adhesive or QuickSeam Tape.

Maximum Design Pressure:

- 390 psf with ISO 95+ GL (See General Limitation #9)
- 420 psf with DensDeck (See General Limitation #9)

Membrane Type: EPDM, Reinforced, Non-reinforced

Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi or greater structural concrete or concrete plank

System Type A(4): One or more layers of insulation adhered with approved adhesive; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
ISO 95+ GL Minimum 1.5" thick	N/A	N/A
Middle Insulation Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft ²
Tapered ISO 95+ GL Minimum ½" thick start with a ¼ : 12 taper	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
DensDeck Minimum ¼" thick	N/A	N/A

Note: All insulation shall be adhered with Firestone I.S.O. Spray Insulation Adhesive applied at a rate of 1.04 – 1.66 gal./sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Membrane: Firestone (Reinforced or Non-Reinforced) Standard RubberGard, Fire Retardant RubberGard, RubberGard LS-FR, RubberGard LS-FR PT, RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR or RubberGard Platinum EPDM membrane fully adhered to the cover board with Firestone BA-2004 T Bonding Adhesive or UltraPly Bonding Adhesive at a rate of 60 sq. ft./gal. (coverage area is for adhesive application to both mating surfaces for a total of 120 sq. ft./gal). The roof cover side and end laps are sealed with Firestone SA-1065 Splice Adhesive or QuickSeam Tape.

Maximum Design Pressure: -195 psf. (See General Limitation #9)



Membrane Type: EPDM, Reinforced, Non-reinforced

Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi or greater structural concrete or concrete plank

System Type A(5): One or more layers of insulation adhered with approved adhesive; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
ISO 95+ GL Minimum 1.5" thick	N/A	N/A
Top Insulation Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft ²
Tapered ISO 95+ GL Minimum ½" starting thickness w/ ¼:12 taper	N/A	N/A

Note: All insulation shall be adhered with Firestone I.S.O. Spray Insulation Adhesive applied at a rate of 1.04 – 1.66 gal./sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Membrane: Firestone Standard RubberGard, RubberGard LS-FR, RubberGard LS-FR PT, RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR or RubberGard Platinum EPDM membrane fully adhered to the cover board with Firestone BA-2004 T Bonding Adhesive or UltraPly Bonding Adhesive at a rate of 60 sq. ft./gal. (coverage area is for adhesive application to both mating surfaces for a total of 120 sq. ft./gal). The roof cover side and end laps are sealed with Firestone SA-1065 Splice Adhesive or QuickSeam Tape.

Maximum Design Pressure: -180 psf. (See General Limitation #9)



Membrane Type: EPDM, Non-reinforced

Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi or greater structural concrete or concrete plank

System Type A(6): One or more layers of insulation adhered with approved adhesive; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
ISO 95+ GL Minimum 1.5" thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
ISOGARD HD Minimum ½" thick	N/A	N/A

Note: All insulation layers shall be adhered with Firestone I.S.O. Stick Insulation Adhesive applied in ½ to ¾ in. wide ribbons spaced 12 in. o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Membrane: Firestone RubberGard EcoWhite EPDM membrane fully adhered to the cover board with Firestone BA-2004 T Bonding Adhesive or UltraPly Bonding Adhesive at a rate of 60 sq. ft./gal. (coverage area is for adhesive application to both mating surfaces for a total of 120 sq. ft./gal). The roof cover side and end laps are sealed with Firestone SA-1065 Splice Adhesive or QuickSeam Tape.

Maximum Design Pressure: -247 psf. (See General Limitation #9)

Membrane Type: EPDM, Non-reinforced

Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi or greater structural concrete or concrete plank

System Type A(7): One or more layers of insulation adhered with approved adhesive; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
ISO 95+ GL Minimum 1.5" thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
ISOGARD HD Minimum ½" thick	N/A	N/A

Note: All insulation layer shall be adhered with Firestone I.S.O. Twin Pack Insulation Adhesive applied in ½ to ¾ in. wide ribbons spaced 12 in. o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Membrane: Firestone RubberGard EcoWhite EPDM membrane fully adhered to the cover board with Firestone BA-2004 T Bonding Adhesive or UltraPly Bonding Adhesive at a rate of 60 sq. ft./gal. (coverage area is for adhesive application to both mating surfaces for a total of 120 sq. ft./gal). The roof cover side and end laps are sealed with Firestone SA-1065 Splice Adhesive or QuickSeam Tape.

Maximum Design Pressure: -222 psf. (See General Limitaion #9)

Membrane Type: EPDM, Reinforced, Non-reinforced

Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi or greater structural concrete or concrete plank

System Type A(8): One or more layers of insulation adhered with approved adhesive; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of vapor retarder.

Vapor Retarder: Firestone MB Base M base sheet adhered to the primed concrete deck with Firestone I.S.O. Twin Pack Insulation Adhesive applied at ½ - ¾ in. wide ribbons spaced 12 in. o.c.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
ISO 95+ GL Minimum 1.5" thick	N/A	N/A
Middle Insulation Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft²
ISO 95+ GL Minimum 1.5" thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
DensDeck, DensDeck Prime Minimum ¼" thick	N/A	N/A

Note: All insulation shall be adhered with Firestone I.S.O. Twin Pack Insulation Adhesive applied in ½ to ¾ in. wide ribbons spaced 12 in. o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Membrane: Firestone Standard RubberGard, RubberGard LS-FR, RubberGard LS-FR PT, RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR, RubberGard EcoWhite or RubberGard Platinum EPDM membrane fully adhered to the cover board with Firestone BA-2004 T Bonding Adhesive or UltraPly Bonding Adhesive at a rate of 60 sq. ft./gal. (coverage area is for adhesive application to both mating surfaces for a total of 120 sq. ft./gal). The roof cover side and end laps are sealed with Firestone SA-1065 Splice Adhesive or QuickSeam Tape.

Maximum Design Pressure: -232.5 psf. (See General Limitation #9)



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Membrane Type: EPDM, Reinforced, Non-reinforced

Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi or greater structural concrete or concrete plank

System Type A(9): One or more layers of insulation adhered with approved adhesive; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of vapor retarder.

Vapor Retarder: Firestone SBS PolyTorch or SBS Glass Torch Base sheet torch adhered to the primed concrete deck.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
ISO 95+ GL Minimum 1.5" thick	N/A	N/A
Middle Insulation Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft²
(Optional) ISO 95+ GL Minimum 1.5" thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
DensDeck, DensDeck Prime Minimum 1/4" thick	N/A	N/A

Note: All insulation shall be adhered with Firestone I.S.O. Twin Pack Insulation Adhesive applied in 1/2 to 3/4 in. wide ribbons spaced 12 in. o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Membrane: Firestone Standard RubberGard, RubberGard LS-FR, RubberGard LS-FR PT, RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR, RubberGard EcoWhite or RubberGard Platinum EPDM membrane fully adhered to the cover board with Firestone BA-2004 T Bonding Adhesive or UltraPly Bonding Adhesive at a rate of 60 sq. ft./gal. (coverage area is for adhesive application to both mating surfaces for a total of 120 sq. ft./gal). The roof cover side and end laps are sealed with Firestone SA-1065 Splice Adhesive or QuickSeam Tape.

Maximum Design Pressure: -232.5 psf. (See General Limitation #9)



Membrane Type: EPDM, Reinforced, Non-reinforced

Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi or greater structural concrete or concrete plank

System Type B: Base layer of insulation mechanically fastened, top layer adhered with approved adhesive; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
ISO 95+ GL		
Minimum 1.5" thick	1	1:2 ft ²

Note: Base layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density. See Roofing Application Standard RAS 117 for fastening details.

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
Tapered ISO 95+ GL		
Minimum ½" starting thickness, ¼:12 taper	N/A	N/A

Note: Top layer of insulation shall be adhered with Firestone I.S.O. Twin Pack Insulation Adhesive applied in ½ to ¾ in. wide ribbons spaced 12 in. o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Membrane: Firestone Standard RubberGard, RubberGard LS-FR, RubberGard LS-FR PT, RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR, RubberGard EcoWhite or RubberGard Platinum EPDM membrane fully adhered to the cover board with Firestone Bonding Adhesive BA-2004 T or UltraPly Bonding Adhesive at a rate of 60 sq. ft./gal. (coverage area is for adhesive application to both mating surfaces). The roof cover side and end laps are sealed with Firestone SA-1065 Splice Adhesive or QuickSeam Tape.

Maximum Design Pressure: -45 psf. (See General Limitation #7)

Membrane Type: EPDM, Reinforced, Non-reinforced

Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi or greater structural concrete or concrete plank

System Type C(1): All layers of insulation simultaneously attached; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
Multi-Max 3, Multi-Max FA, ACFoam II Minimum 1.3" thick	N/A	N/A
ISO 95+ GL, ENRGY 3, ENRGY 3 25 PSI Minimum 1.4" thick	N/A	N/A

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
Approved High Density Wood Fiberboard Minimum 1.5" thick	1, 2, 3, 5 or 10	1:2 ft ²

Fire Barrier: None.

Membrane: Fully adhere any Firestone EPDM membrane to the insulation with Firestone Bonding Adhesive BA-2004 T or UltraPly Bonding Adhesive at a rate of 45-60 sq. ft./gal. (coverage area is for adhesive application to both mating surfaces).

Surfacing: (Optional) Firestone Acryli-Top (PC-100) to be applied at 1 gal./100 sq. ft. with an airless sprayer. If roller applied, two separate coats of 200 sq. ft. per gallon are required.

Maximum Design Pressure: -45 psf. (See General Limitation #7)

Membrane Type: EPDM, Reinforced, Non-reinforced

Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi or greater structural concrete or concrete plank

System Type C(2): All layers of insulation simultaneously attached; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
ACFoam II Minimum 1.3" thick	1, 2, 3, 5, 7 or 10	1:2 ft ²
ISO 95+ GL, ENRGY 3, ENRGY 3 25 PSI Minimum 1.4" thick	1, 2, 3, 5, 7, 10 or 15	1:2 ft ²
Minimum 2" thick	1, 2 or 3	1:4 ft ²
Thermarroof Composite, Fesco Foam, ACFoam Composite Minimum 1.5" thick	1, 2, 3, 5, 7, 10 or 15	1:2 ft ²
Approved High Density Wood Fiberboard Minimum 1" thick	1, 2, 3, 5 or 10	1:2 ft ²

Note: All layers of insulation shall be simultaneously mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Fire Barrier: None.

Membrane: Fully adhere any Firestone EPDM membrane to the insulation with Firestone Bonding Adhesive BA-2004 T or UltraPly Bonding Adhesive at a rate of 45-60 sq. ft./gal. (coverage area is for adhesive application to both mating surfaces).

Surfacing: (Optional) Firestone Acryli-Top (PC-100) to be applied at 1 gal./100 sq. ft. with an airless sprayer. If roller applied, two separate coats of 200 sq. ft. per gallon are required.

Maximum Design Pressure: -45 psf. (See General Limitation #7)

Membrane Type: EPDM, Reinforced, Non-reinforced

Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi or greater structural concrete or concrete plank

System Type C(3): Insulation attached; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
ISO 95+ GL Minimum 1.5" thick	1, 2 or 3	1:2 ft ²

Note: All layers of insulation shall be simultaneously mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Fire Barrier: None.

Membrane: Fully adhere any Firestone RubberGard® EPDM membrane to the insulation with Firestone Bonding Adhesive BA-2004 T or UltraPly Bonding Adhesive at a rate of 45-60 sq. ft./gal. (coverage area is for adhesive application to both mating surfaces).

Surfacing: (Optional) Firestone Acryli-Top (PC-100) to be applied at 1 gal./100 sq. ft. with an airless sprayer. If roller applied, two separate coats of 200 sq. ft. per gallon are required.

Maximum Design Pressure: -75 psf. (See General Limitation #9)

Membrane Type: EPDM, Reinforced, Non-reinforced

Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi or greater structural concrete or concrete plank

System Type C(4): Insulation attached; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
ISO 95+ GL Minimum 1.5" thick	1	1:1.6 ft ²

Note: All layers of insulation shall be simultaneously mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Firestone Standard RubberGard, RubberGard LS-FR, RubberGard LS-FR PT, RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR or RubberGard Platinum EPDM membrane fully adhered to the insulation with Firestone BA-2004 T Bonding Adhesive or UltraPly Bonding Adhesive applied at a rate of 60 ft²/gal. (120 ft²/gal. to both the underside of the roof cover and the substrate). Side and end laps sealed with Firestone SA-1065 Splice Adhesive or QuickSeam Tape.

Maximum Design Pressure: -52.5 psf. (See General Limitation #7)

Membrane Type: EPDM, Reinforced
Deck Type 3I: Concrete, Insulated
Deck Description: 2500 psi or greater structural concrete or concrete plank
System Type D(1): Membrane mechanically attached over preliminary fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
Multi-Max 3, Multi-Max FA, ACFoam II Minimum 1.3" thick	N/A	N/A
ISO 95+ GL, ENRGY 3, ENRGY 3 25 PSI Minimum 1.4" thick	N/A	N/A

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
Approved High Density Wood Fiberboard Minimum ½" thick	1, 2, 3, 7 or 12	1:4 ft²

Fire Barrier: None.

Membrane: Mechanically attach any 7 1/2' Reinforced Firestone RubberGard® EPDM membrane with Firestone All-Purpose or Heavy-Duty fasteners with minimum 1" embedment in 2" Metal Plates (or metal battens) 6" o.c. within the 7" wide side laps, or any nominal 10' Reinforced Firestone RubberGard® EPDM membrane with Firestone All-Purpose or Heavy-Duty Fasteners with minimum 1" embedment in metal batten strip only 6" o.c. with 7" side laps.

Or

Mechanically attach Firestone QuickSeam R.M.A. Strip along its 4" wide center section with Firestone Polymer or Metal Batten Strip and Heavy-Duty Fasteners with minimum 1" embedment along the batten strip or with Firestone 2" Metal Plates or V-Plates with Heavy-Duty Fasteners with minimum 1" embedment; fasteners shall be 6" o.c. within the QuickSeam R.M.A Strip spaced 7-1/2 ft. o.c. Any Reinforced Firestone RubberGard® EPDM membrane is adhered to each QuickSeam R.M.A. Strip.

Surfacing: (Optional) Firestone Acryli-Top (PC-100) to be applied at 1 gal./100 sq. ft. with an airless sprayer. If roller applied, two separate coats of 200 sq. ft. per gallon are required.

Maximum Design Pressure: -52.5 psf. (See General Limitation #7)



Membrane Type: EPDM, Reinforced
Deck Type 3I: Concrete, Insulated
Deck Description: 2500 psi or greater structural concrete or concrete plank
System Type D(2): Membrane mechanically attached over preliminary fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
ISO 95+ GL, AC Foam II Minimum 1.3" thick	1, 2, 3, 5, 7, 10 or 15	1:4 ft ²
ENRGY 3, ENRGY 3 25 PSI Minimum 1.4" thick	1, 2, 3, 5, 7 or 10	1:4 ft ²
Thermarroof Composite, Fesco Foam, AC Foam Composite Minimum 1.5" thick	1, 2, 3, 5, 7 or 10	1:4 ft ²
Approved High Density Wood Fiberboard Minimum ½" thick	1, 2, 3, 5, 7 or 10	1:4 ft ²

Note: All layers of insulation and base sheet shall be simultaneously attached. See base sheet below for fasteners and density. Refer to Roofing Application Standard RAS 117 for insulation attachment requirements. Insulation shall have preliminary attachment, prior to the installation of the roofing membrane.

Fire Barrier: None.

Membrane: Mechanically attach any 7 1/2' Reinforced Firestone RubberGard® EPDM membrane with Firestone All-Purpose or Heavy-Duty fasteners with minimum 1" embedment in 2" Metal Plates (or metal battens) 6" o.c. within the 7" wide side laps, or any nominal 10' Reinforced Firestone RubberGard® EPDM membrane with Firestone All-Purpose or Heavy-Duty Fasteners with minimum 1" embedment in metal batten strip only 6" o.c. with 7" side laps.
Or
Mechanically attach Firestone QuickSeam R.M.A. Strip along its 4" wide center section with Firestone Polymer or Metal Batten Strip and Heavy-Duty Fasteners with minimum 1" embedment along the batten strip or with Firestone Seam Plates or V-Plates with Heavy-Duty Fasteners with minimum 1" embedment; fasteners shall be 6" o.c. within the QuickSeam R.M.A Strip spaced 7-1/2 ft. o.c. Any Reinforced Firestone RubberGard® EPDM membrane is adhered to each QuickSeam R.M.A. Strip.

Surfacing: (Optional) Firestone Acryli-Top (PC-100) to be applied at 1 gal./100 sq. ft. with an airless sprayer. If roller applied, two separate coats of 200 sq. ft. per gallon are required.

Maximum Design Pressure: -52.5 psf. (See General Limitation #7)



Membrane Type: EPDM, Reinforced

Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi or greater structural concrete or concrete plank

System Type D(3): Membrane mechanically attached over preliminary fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
ISO 95+ GL Minimum 1.5" thick	N/A	N/A

Note: All layers of insulation and base sheet shall be simultaneously attached. See base sheet below for fasteners and density. Refer to Roofing Application Standard RAS 117 for insulation attachment requirements. Insulation shall have preliminary attachment, prior to the installation of the roofing membrane.

Membrane: Mechanically attach Firestone RubberGard MAX[®] or RubberGard MAX FR[®] EPDM membrane with Firestone Heavy-Duty fasteners with minimum 1" embedment in V-Plates or 2" Metal Plates 6" o.c. within the 7" wide side laps in rows 7 feet o.c. The roof cover laps are adhered by priming both lap surfaces with QuickPrime primer then applying 7" wide QuickSeam Tape.

Or

Mechanically attach Firestone QuickSeam R.M.A. Strip along its 4" wide center section with Firestone Polymer or Metal Batten Strip and Heavy-Duty Fasteners with minimum 1" embedment along the batten strip or with Firestone 2" Metal Plates or V-Plates with Heavy-Duty Fasteners with minimum 1" embedment; fasteners shall be 6" o.c. within the QuickSeam R.M.A. Strip spaced 7 ft. o.c. RubberGard MAX or RubberGard MAX FR EPDM membrane is adhered to each QuickSeam R.M.A. Strip.

Maximum Design Pressure: -52.5 psf. (See General Limitation #7)



Membrane Type: EPDM, Reinforced

Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi or greater structural concrete or concrete plank

System Type D(4): Membrane mechanically attached over preliminary fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
ISO 95+ GL Minimum 1.5" thick	N/A	N/A

Note: All layers of insulation and base sheet shall be simultaneously attached. See base sheet below for fasteners and density. Refer to Roofing Application Standard RAS 117 for insulation attachment requirements. Insulation shall have preliminary attachment, prior to the installation of the roofing membrane.

Membrane: Firestone RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR or Standard Reinforced RubberGard EPDM roof cover mechanically fastened to the deck with Firestone Heavy-Duty Fasteners with minimum 1" embedment and 1 in. wide Firestone Coiled Metal Batten Strip 6 in. o.c. within the 6 in. wide side laps in rows spaced 7 ft. o.c. Side laps primed with Firestone QuickPrime Plus applied at 200-250 ft²/gal. and adhered with Firestone QuickSeam Tape.

Maximum Design Pressure: -67.5 psf. (See General Limitation #7)

Membrane Type: EPDM, Reinforced
Deck Type 3: Concrete, Non-Insulated
Deck Description: 2500 psi or greater structural concrete or concrete plank
System Type E: Membrane mechanically attached to deck.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Fire Barrier: Firestone Protection Mat, loose laid.

Membrane: Mechanically attach any 7 1/2' Reinforced Firestone RubberGard® EPDM membrane with Firestone All-Purpose or Heavy-Duty fasteners with minimum 1" embedment in 2" Metal Plates (or metal battens) 6" o.c. within the 7" wide side laps, or any nominal 10' Reinforced Firestone RubberGard® EPDM membrane with Firestone All-Purpose or Heavy-Duty Fasteners with minimum 1" embedment in metal batten strip only 6" o.c. with 7" side laps.

Or

Mechanically attach Firestone QuickSeam R.M.A. Strip along its 4" wide center section with Firestone Polymer or Metal Batten Strip and Heavy-Duty Fasteners with minimum 1" embedment along the batten strip or with Firestone 2" Metal Plates or V-Plates with Heavy-Duty Fasteners with minimum 1" embedment; fasteners shall be 6" o.c. within the QuickSeam R.M.A Strip spaced 7-1/2 ft. o.c. Any Reinforced Firestone RubberGard® EPDM membrane is adhered to each QuickSeam R.M.A. Strip.

Surfacing: (Optional) Firestone Acryli-Top (PC-100) to be applied at 1 gal./100 sq. ft. with an airless sprayer. If roller applied, two separate coats of 200 sq. ft. per gallon are required.

Maximum Design Pressure: -52.5 psf. (See General Limitation #7)

Membrane Type: EPDM, Reinforced, Non-reinforced

Deck Type 3: Concrete, Non-Insulated

Deck Description: 2500 psi or greater structural concrete or concrete plank

System Type F: Membrane adhered to deck.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Fire Barrier: None.

Membrane: Fully adhere any Firestone RubberGard® EPDM membrane to the Structural Concrete with Firestone Bonding Adhesive BA-2004 T at a rate of 45-60 sq. ft./gal. (coverage area is for adhesive application to both mating surfaces).

Surfacing: (Optional) Firestone Acryli-Top (PC-100) to be applied at 1 gal./100 sq. ft. with an airless sprayer. If roller applied, two separate coats of 200 sq. ft. per gallon are required.

Maximum Design Pressure: -45 psf. (See General Limitation #9)

CONCRETE DECK SYSTEM LIMITATIONS:

1. If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117 and/or RAS 137, calculations shall be signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant.

GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each sidelap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq.
Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.
5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117 and/or RAS 137. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant (**When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.**)
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform with Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). (**When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.**)
10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9N-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE



NOA No.: 13-0423.05
Expiration Date: 08/10/18
Approval Date: 07/25/13
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